



Reported Releases and Other Waste Management Activities (in pounds)

	Total
On-site Releases	606,092,545
Air Emissions	4,600,105
Surface Water Discharges	6,376
Underground Injection Class I Wells	0
Underground Injection Class II-V Wells	0
On-site Land Releases to RCRA Subtitle C Landfills	4,886
Other On-site Land Releases	601,481,177
Off-site Releases (Transfers Off-site to Disposal)*	721,776
Total On- and Off-site Releases	606,814,321
Recycled On-site	58,925,877
Recycled Off-site	18,509,833
Energy Recovery On-site	422,012
Energy Recovery Off-site	488,202
Treated On-site	10,710,007
Treated Off-site**	2,511,844
Quantity Released On- and Off-site***	608,214,311
Total Production-related Waste Managed	699,782,085
Non-production-related Waste Managed	79,115

Tion production related viaste Managed	75,115
Transfers Off-site for Further Waste Manag	gement, including Disposal
Recycling	18,527,637
Energy Recovery	487,455
Treatment	1,032,434
Publicly Owned Treatment Works (POTWs)	1,513,837
Metals and Metal Category Compounds*	1,835
Non-metal TRI Chemicals**	1,512,002
Other Off-site Transfers****	0
Transfers Off-site to Disposal	928,483
(not including metals to POTWs)	
Total Transfers Off-site for Further Waste	22,489,845
Management, including Disposal	

- * Transfers to POTWs of metals and metal category compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.
- ** Transfers to POTWs of non-metals are included in treated off-site waste management activity.
- ** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.
- **** Transfers reported without a valid waste management code.

For More Information . . .

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The largest circle in the state map represents
the largest facility for on-site releases in the
state of Arizona. All circles are proportion-
ally-sized to represent the on-site releases at
each facility within this state.

	State/TRI Data
Population	5,306,966
Square Miles	113,642
Total Facilities	275
Total Forms	915
Form As	127

	Total
National Rank for Total On- and Off-site Releases*	
Rank	3
Pounds	606,814,321
National Rank for Total On-site Releases**	
Rank	3
Pounds	606,092,545
National Rank for Total Releases within State***	
Rank	3
Pounds	607,603,696
National Rank for Production-related Waste Managed	
Rank	11
Pounds	699,782,085

- Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.
- * Includes amounts released at the facility. Excludes amounts transferred to other sites.
- *** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.

On-site and Off-site Releases for Top Five Chemicals Ranked on Total Releases in the State (All Chemicals)

			On-site	Releases		Off-site Releases		Off-site Transfers to Disposal				
		Surface			On-site	Transfers	Total	Transferred	Transferred	Transferred		
CAS		Air	Water	Underground	Releases to	Off-site to	Releases in	Into	Within	Out of		
Number	Chemical	Emissions	Discharges	Injection	Land	Disposal*	the State**	State	State	State		
		Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds		
_	Copper compounds	135,813	584	0	451,467,272	78,121	451,681,790	18,878	69,118	9,003		
_	Zinc compounds	25,146	454	0	67,699,826	114,018	67,839,444	57,600	12,721	101,297		
_	Barium compounds	17,942	0	0	42,906,576	66	42,924,584	250	0	66		
_	Manganese compounds	19,258	5	0	14,151,651	131,070	14,301,984	217	40,197	90,873		
_	Lead compounds	31,143	6	0	11,107,738	63,284	11,202,171	1,890	17,758	45,526		

On-site and Off-site Releases for PBT Chemicals Ranked on Total Releases in the State

			On-site	Releases		Off-site Releases		Off-site	Transfers to Di	sposal
			Surface		On-site	Transfers	Total	Transferred	Transferred	
CAS		Air	Water	Underground	Releases to	Off-site to	Releases in	Into	Within	Out of
Number	Chemical	Emissions	Discharges	Injection	Land	Disposal*	the State**	State	State	State
		Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
_	Lead compounds	31,143.26	6.01	0.00	11,107,738.23	63,283.73	11,202,171.23	1,889.84	17,757.59	45,526.14
7439-92-1	Lead	705.39	1.00	0.00	73,645.30	14,227.90	88,579.59	8,736.44	10,650.90	3,577.00
_	Mercury compounds	1,031.42	0.00	0.00	29,023.96	245.36	30,300.74	3.00	240.80	4.56
_	Polycyclic aromatic compounds	1,214.95	0.00	0.00	423.40	0.40	1,638.75	1.00	0.40	0.00
7439-97-6	Mercury	542.00	0.00	0.00	6.00	266.34	814.35	0.00	9.20	257.14
1336-36-3	Polychlorinated biphenyls (PCBs)	0.00	0.00	0.00	0.00	726.00	726.00	0.00	0.00	726.00
79-94-7	Tetrabromobisphenol A	2.21	0.00	0.00	0.00	215.50	217.71	0.00	215.50	0.00
191-24-2	Benzo(g,h,i)perylene	0.74	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00
_	Dioxin and dioxin-like compounds	0.04	0.00	0.00	0.00	0.00	0.04	0.05	0.00	0.00
_	Dioxin and dioxin-like compounds (in grams)	16.368	0.000	0.000	0.013	0.000	16.381	23.245	0.000	0.000
309-00-2	Aldrin	***	_	_	_	_	_	_	_	_
57-74-9	Chlordane	***	_	_	_	_	_	_	_	_
76-44-8	Heptachlor	***	_	_	_	_	_	_	_	_
118-74-1	Hexachlorobenzene	***	_	_	_	_	_	_	_	_
465-73-6	Isodrin	***	_	_	_	_	_	_	_	_
72-43-5	Methoxychlor	***	_	_	_	_	_	_	_	_
29082-74-4	Octachlorostyrene	***	_	_	_	_	_	_	_	_
40487-42-1	Pendimethalin	***	_	_	_	_	_	_	_	_
608-93-5	Pentachlorobenzene	***	_	_	_	_	_	_	_	_
8001-35-2	Toxaphene	***	_	_	_	_	_	_	_	_
1582-09-8	Trifluralin	***	_	_	_	_	_	_	_	_

^{*} Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

^{*} The chemical ranking is based on the amounts in this column.

^{***} No reports were submitted for these chemicals.

On-site and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (All Chemicals)

			On-site		Off-site	Releases			
	<u>Underground Injection</u> <u>On-site Releases to Land</u>						(Transfers Off-	site to Disposal)	
		Surface			RCRA	Other	Total	Transferred	
	Air	Water	Class I	Class II-V	Subtitle C	On-site Land	On-site	Within	Out of
Facility, City, County	Emissions	Discharges	Wells	Wells	Landfills	Releases	Releases*	State	State
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
ASARCO Inc. Mission Complex, Sahuarita, Pima	7,545	0	0	0	0	140,980,685	140,988,230	0	0
ASARCO Inc. Ray Ops. Mine, Kearny, Pinal	13,979	282	0	0	0	129,320,142	129,334,403	0	0
Phelps Dodge Bagdad Inc., Bagdad, Yavapai	8,631	5	0	0	0	114,376,981	114,385,617	0	0
Phelps Dodge Miami Inc., Claypool, Gila	333,752	0	0	0	0	97,838,452	98,172,204	1,661	0
ASARCO Inc. Ray Complex/Hayden Smelter & Concentrator, Hayden, Gila	172,926	0	0	0	0	51,702,830	51,875,756	62,843	0
Phelps Dodge Sierrita Inc., Green Valley, Pima	21,944	5	0	0	0	28,816,722	28,838,672	0	0
Phelps Dodge Morenci Inc., Morenci, Greenlee	112,876	0	0	0	0	26,013,057	26,125,933	2,498	77,000
Silver Bell Mining L.L.C., Marana, Pima	1,110	6	0	0	0	5,142,008	5,143,124	0	0
Springerville Generating Station, Springerville, Apache	92,368	0	0	0	0	2,349,131	2,441,499	0	0
Navajo Generating Station, Page, Coconino	243,615	0	0	0	0	2,124,571	2,368,186	0	111

On-site and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (PBT Chemicals)

			On-site		Off-site	Releases			
	<u>Underground Injection</u> <u>On-site Releases to Land</u>							(Transfers Off-	site to Disposal)
		Surface			RCRA	Other	Total	Transferred	
	Air	Water	Class I	Class II-V	Subtitle C	On-site Land	On-site	Within	Out of
Facility, City, County	Emissions	Discharges	Wells	Wells	Landfills	Releases	Releases*	State	State
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
ASARCO Inc. Mission Complex, Sahuarita, Pima	499.00	0.00	0.00	0.00	0.00	4,206,569.00	4,207,068.00	0.00	0.00
ASARCO Inc. Ray Ops. Mine, Kearny, Pinal	764.20	0.00	0.00	0.00	0.00	2,041,544.00	2,042,308.20	0.00	0.00
ASARCO Inc. Ray Complex/Hayden Smelter & Concentrator, Hayden, Gila	12,738.00	0.00	0.00	0.00	0.00	1,973,139.00	1,985,877.00	928.00	0.00
Phelps Dodge Miami Inc., Claypool, Gila	11,997.06	0.00	0.00	0.00	0.00	1,416,442.00	1,428,439.06	406.21	0.00
Phelps Dodge Sierrita Inc., Green Valley, Pima	57.30	0.00	0.00	0.00	0.00	1,086,692.20	1,086,749.50	0.00	0.00
Phelps Dodge Morenci Inc., Morenci, Greenlee	1,812.30	0.00	0.00	0.00	0.00	196,846.60	198,658.90	273.74	0.00
Phelps Dodge Bagdad Inc., Bagdad, Yavapai	46.20	0.00	0.00	0.00	0.00	130,900.00	130,946.20	0.00	0.00
Springerville Generating Station, Springerville, Apache	497.01	0.00	0.00	0.00	0.00	67,001.00	67,498.01	0.00	0.00
Navajo Generating Station, Page, Coconino	642.01	0.00	0.00	0.00	0.00	23,650.00	24,292.01	0.00	29.40
Coronado Generating Station, Saint Johns, Apache	419.86	0.00	0.00	0.00	0.00	23,589.00	24,008.86	0.00	0.00

^{*} The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (All Chemicals)

			Energy	Energy			Quantity	Total Production-	Total Non- Production-
	Recycled	Recycled	Recovery	Recovery	Treated	Treated	Released On-	related	related
Facility, City, County	On-site	Off-site	On-site	Off-site	On-site	Off-site	and Off-site*	Waste Managed	Waste Managed
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
ASARCO Inc. Mission Complex, Sahuarita, Pima	0	0	0	0	0	0	140,988,230	140,988,230	0
ASARCO Inc. Ray Ops. Mine, Kearny, Pinal	18,236	69,263	0	0	0	0	129,334,403	129,421,902	0
Phelps Dodge Bagdad Inc., Bagdad, Yavapai	0	0	0	0	0	0	114,384,960	114,384,960	0
Phelps Dodge Miami Inc., Claypool, Gila	0	318,282	0	0	0	0	99,044,666	99,362,948	0
ASARCO Inc. Ray Complex/Hayden Smelter & Concentrator, Hayden, Gila	35,952,214	2,229,625	0	0	0	0	51,937,928	90,119,767	0
Phelps Dodge Sierrita Inc., Green Valley, Pima	0	0	0	0	0	0	29,333,705	29,333,705	0
Phelps Dodge Morenci Inc., Morenci, Greenlee	0	510,878	0	0	0	4,862	26,169,117	26,684,857	616
Silver Bell Mining L.L.C., Marana, Pima	0	0	0	0	6,200	0	5,142,634	5,148,834	0
Springerville Generating Station, Springerville, Apache	0	0	0	0	0	0	2,442,410	2,442,410	0
Navajo Generating Station, Page, Coconino	0	0	0	0	2,243,960	0	2,369,004	4,612,964	172

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (PBT Chemicals)

								Total	Total Non-
			Energy	Energy			Quantity	Production-	Production-
	Recycled	Recycled	Recovery	Recovery	Treated	Treated	Released On-	related	related
Facility, City, County	On-site	Off-site	On-site	Off-site	On-site	Off-site	and Off-site*	Waste Managed	Waste Managed
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
ASARCO Inc. Mission Complex, Sahuarita, Pima	0.00	0.00	0.00	0.00	0.00	0.00	4,207,068.00	4,207,068.00	0.00
ASARCO Inc. Ray Ops. Mine, Kearny, Pinal	0.00	67,465.00	0.00	0.00	0.00	0.00	2,042,308.00	2,109,773.00	0.00
ASARCO Inc. Ray Complex/Hayden Smelter & Concentrator, Hayden, Gila	2,232,377.00	160,846.00	0.00	0.00	0.00	0.00	1,986,805.00	4,380,028.00	0.00
Phelps Dodge Miami Inc., Claypool, Gila	0.00	55,283.00	0.00	0.00	0.00	0.00	1,404,171.00	1,459,454.00	0.00
Phelps Dodge Sierrita Inc., Green Valley, Pima	0.00	0.00	0.00	0.00	0.00	0.00	1,081,700.00	1,081,700.00	0.00
Phelps Dodge Morenci Inc., Morenci, Greenlee	0.00	510,878.00	0.00	0.00	0.00	119.00	198,707.00	709,704.00	226.00
Phelps Dodge Bagdad Inc., Bagdad, Yavapai	0.00	0.00	0.00	0.00	0.00	0.00	131,320.00	131,320.00	0.00
Springerville Generating Station, Springerville, Apache	0.00	0.00	0.00	0.00	0.00	0.00	68,410.00	68,410.00	0.00
Gould Electronics Inc., Chandler, Maricopa	0.00	11,886.00	0.00	0.00	0.00	0.00	31,888.00	43,774.00	0.00
Navajo Generating Station, Page, Coconino	0.00	0.00	0.00	0.00	283,658.00	0.00	24,321.00	307,979.00	0.00

The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.